

(19) World Intellectual Property  
Organization  
International Bureau



(43) International Publication Date  
30 June 2005 (30.06.2005)

PCT

(10) International Publication Number  
**WO 2005/059047 A1**

(51) International Patent Classification<sup>7</sup>: **C09D 11/10**,  
C08G 8/34, A24C 5/60, C09D 11/10

Antoine [FR/BE]; 124, rue du chateau d'eau, B-1180 Uccle  
(BE). CATHERIN, Gilles [FR/FR]; Presbytère, 25, rue de  
l'Eglise, F-01630 Saint-Genis-Pouilly (FR).

(21) International Application Number:  
PCT/EP2004/013060

(74) Agents: **HEPP, Dieter** et al.; Hepp Wenger Ryffel AG,  
Friedtalweg 5, CH-9500 Wil (CH).

(22) International Filing Date:  
18 November 2004 (18.11.2004)

(81) Designated States (*unless otherwise indicated, for every  
kind of national protection available*): AE, AG, AL, AM,  
AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN,  
CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI,  
GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE,  
KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD,  
MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG,  
PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM,  
TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM,  
ZW.

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:  
03028883.1 16 December 2003 (16.12.2003) EP

(71) Applicant (*for all designated States except US*): **SICPA  
HOLDING S.A.** [CH/CH]; Avenue de Florissant 41,  
CH-1008 Prilly (CH).

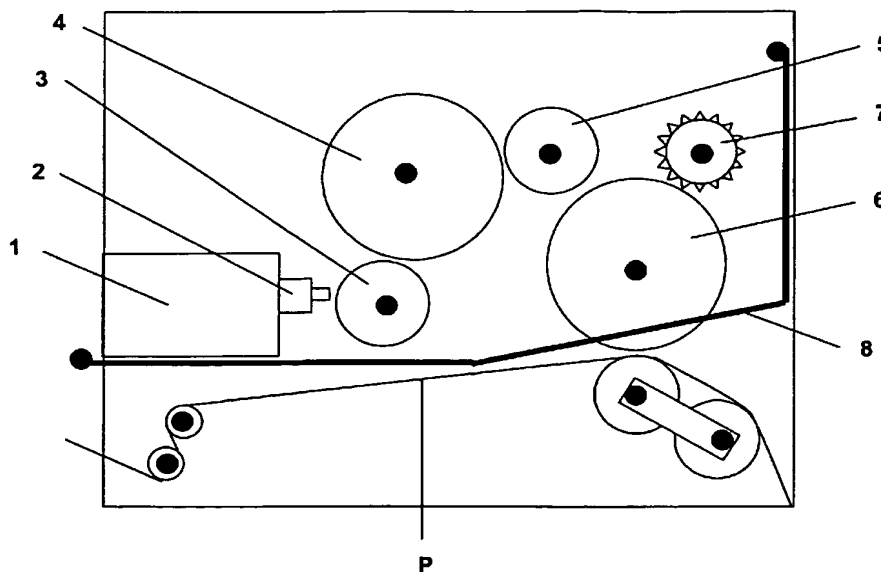
(84) Designated States (*unless otherwise indicated, for every  
kind of regional protection available*): ARIPO (BW, GH,  
GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM,  
ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM),  
European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI,  
FR, GB, GR, HU, IE, IS, IT, LU, MC, NL, PL, PT, RO, SE,

(72) Inventors; and

(75) Inventors/Applicants (*for US only*): **NOIROT, Pierre-**

[Continued on next page]

(54) Title: **DIE PRINTING INK**



(57) Abstract: The present invention is related to a binder for letterpress printing inks, comprising a resin which is a modified condensation product of phenol and formaldehyde, said modified condensation product having a molecular weight ranging from 300 to 10 millions, with more than 24% of the product having a molecular weight above 1 million, and a melting point of at least 130°C, and an absolutely aromatic-free solvent. Moreover, the present invention is related to a letterpress printing ink comprising said binder, in which all components are complying with the German Tobacco Regulation, in particular at least one food grade colorant. The binder and the ink are useful for direct cigarette printing.

WO 2005/059047 A1



SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

*For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.*

**Published:**

— *with international search report*